

Listing of the Claims:

1. (Currently Amended) **Apparatus** An apparatus for the continuous bonding and/or welding of material webs (14, 16) by means of ultrasound having an ultrasonic horn configured as a rotating roller (22), an anvil disposed opposite the rotating shaft (22), an amplitude transformer (24) set axially on the rotating shaft (22), and an ultrasonic converter (24) attached to the amplitude transformer (24) with an energy supply, characterized in that the length (l) of the rotating roller (22) equals one of a lambda-half wave of the imposed oscillation or and a multiple thereof ($l = x \lambda/2$).
2. (Currently Amended) **Apparatus** The apparatus in accordance with claim 1, wherein radial bearings (26) are furnished disposed between the amplitude transformer (24) and the rotating roller (22).
3. (Currently Amended) **Apparatus** The apparatus in accordance with one of the preceding claims claim 1, wherein an amplitude transformer (24) and an ultrasonic converter (28) are furnished on both sides of the rotating roller (22).
4. (Currently Amended) **Apparatus** The apparatus in accordance with one of the preceding claims claim 1, wherein the anvil is a rotating counter-roller (34).
5. (Currently Amended) **Apparatus** The apparatus in accordance with one of the preceding claims claim 1, wherein the outer surface of one of the rotating roller (22) and/or and the counter-roller (34) is one of smooth or and patterned.
6. (Currently Amended) **Apparatus** The apparatus in accordance with one of the claims 1 through 4 claim 1, wherein the anvil is fixed and is specifically a knife, blade or similar.

7. (Currently Amended) **Apparatus** The apparatus in accordance with claim 6, wherein the ~~knife, blade or similar anvil~~ extends in a tangential direction respective to the rotating roller (22).

8. (Currently Amended) **Apparatus** The apparatus in accordance with ~~one of the preceding claims~~ claim 1, wherein the depth of the working gap (+8) between the rotating roller (22) and the anvil ~~can be adjusted~~ is adjustable.

9. (Currently Amended) **Apparatus** The apparatus in accordance with ~~one of the preceding claims~~ claim 1, wherein the pressure exerted by the rotating roller (22) on the material web (+4, 16) ~~can be adjusted~~ is adjustable.

10. (Currently Amended) **Apparatus** The apparatus in accordance with ~~one of the preceding claims~~ claim 1, wherein the rotating roller (22) is formed by a hollow shaft (42) with trunnions (44).

11. (Currently Amended) **Apparatus** The apparatus in accordance with ~~one of the preceding claims~~ claim 1, wherein the rotating roller 22) can be one of cooled [or] and heated.

12. (Currently Amended) **Apparatus** The apparatus in accordance with ~~one of the preceding claims~~ claim 4, wherein the counter-roller (34) is configured as an active roller with an amplitude transformer (24) and an ultrasonic converter (28) attached thereto.

13. (Currently Amended) **Apparatus** The apparatus in accordance with ~~one of the preceding claims~~ claim 1, wherein at least two rotating rollers, (22), which are arranged in tandem, contact the anvil.

14. (Currently Amended) **Apparatus** The apparatus in accordance with claim 13, wherein the two rollers (22) arranged in tandem are offset to each other in the axial direction by an amount ($\Delta 1$).

15. (Currently Amended) **Apparatus** The apparatus in accordance with claim 14, wherein the amount ($\Delta 1$) equals a lambda-half wave of the imposed oscillation ($\Delta 1 = \lambda/4$).

16. (Currently Amended) **Apparatus** The apparatus in accordance with ~~one of the preceding claims~~ claim 1, wherein the diameter (D) of the rotating roller (22) is partially waisted.

17. (Currently Amended) **Apparatus** The apparatus in accordance with claim 16, wherein the depth of the waist equals one part of a lambda-half wave of the imposed oscillation ($E = |x| \lambda/2$).

18. (Currently Amended) **Apparatus** The apparatus in accordance with ~~one of the preceding claims~~ claim 1, wherein ~~the~~ a diameter of the rotating roller (22) is made thicker such that pressure is equally distributed along its length.

19. (Currently Amended) **Apparatus** The apparatus in accordance with ~~one of the preceding claims~~ claim 1, wherein the rotating roller (2) has a swelling.

20. (Currently Amended) **Apparatus** The apparatus in accordance with ~~one of the preceding claims~~ claim 1, wherein ~~the~~ a change in diameter of the rotating roller (22) corresponds to ~~the~~ a bending line.

21. (Currently Amended) **Apparatus** The apparatus in accordance with ~~one of the preceding claims~~, claim 4, wherein ~~the~~ axis axes of the rotating roller (22) and the counter-roller anvil are skewed relative to each other.

22. (New) The apparatus in accordance with claim 1, wherein the anvil is one of a knife and a blade.